

Latitude

39 57 30

OGIS
75' loc

80 30

Longitude

Topo Location

7.5' Loc. 0.28S 15' Loc. 3.16S
1.78W (calc.) 1.78W

Company _____

Farm _____

15' Quad Cameron NE
(sec.) _____

7.5' Quad Majorsville

District Sand hill

WELL LOCATION PLAT

County 051 Permit 312



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION 13

Quadrangle Cameron

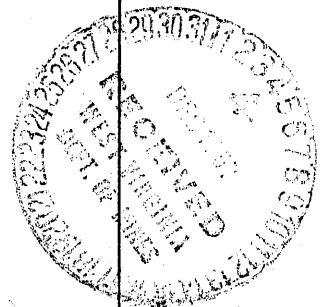
WELL RECORD

Permit No. MAR 312

Oil or Gas Well Gas
(KIND)

Company <u>The Manufacturers Light and Heat Company</u>	Casing and Tubing	Used in Drilling	Left in Well	Packers
Address <u>800 Union Trust Building, Pgh. 19, Penna.</u>	Size			Kind of Packer
Farm <u>Nora Harsh</u> Acres <u>300</u>	16			
Location (waters)	13 "	<u>148'5"</u>	<u>148'5"</u>	
Well No. <u>4437</u> Elev. <u>1121.09</u>	10 "	<u>598'4"</u>	<u>598'4"</u>	Size of
District <u>Sandhill</u> County <u>Marshall</u>	8 7 "	<u>1320'5"</u>	<u>1320'5"</u>	Depth set
The surface of tract is owned in fee by _____	6%			
Address _____	5 3/16			
Mineral rights are owned by _____	3			Perf. top
Address _____	2			Perf. bottom
Drilling commenced <u>September 12, 1957</u>	Liners Used			Perf. top
Drilling completed <u>November 4, 1957</u>				Perf. bottom
Date Shot _____ From _____ To _____				
With _____				
Open Flow _____ /10ths Water in _____ Inch				
_____ /10ths Merc. in _____ Inch	CASING CEMENTED	SIZE	No. Ft.	Date
Volume _____ Cu. Ft.				
Rock Pressure <u>568</u> lbs. <u>72</u> hrs.				
Oil _____ bbls., 1st 24 hrs.	COAL WAS ENCOUNTERED AT	FEET	INCHES	
Fresh water _____ feet _____ feet		FEET	INCHES	FEET
Salt water _____ feet _____ feet		FEET	INCHES	FEET

Formation	Color	HARDNESS THICKNESS	Top	Bottom	Oil, Gas or Water	Depth Found	Remarks
<u>Drillers Log</u>					Elevation -	1121.09'	(Ground level)
Clay		10	0	10	Depth Datum -		Derrick floor - 2' above ground level.
Sand		30	10	40			
Slate - Shells		75	40	115			
Sand		15	115	130	Fresh water, 1-1/2 Bbls. per Hr.		
Slate - Shells		40	130	170	13-3/8" (48#, H-40) Csg. Pt. -	148'5"	
Lime		25	170	195	Cemented with 200 bags.	9-27-57	
Slate & Shells		70	195	265			
Waynesburg Coal		4	265	269			
Slate - Shells		26	269	295			
Lime		165	295	460			
Mapletown Coal		2	460	462			
Slate		16	462	478			
Lime		57	478	535			
Slate - Shells		28	535	563			
Pittsburgh Coal		4	563	567	Show of gas in the Pgh. Coal		
Slate		30	567	597	10-3/4" (32.75#, H-40) Csg. Pt. -	598'4"	
Lime		28	597	625	Cemented with 200 bags.	10/1/57	
Slate - Shell		35	625	660			
Sand		40	660	700			
Red Rock		10	700	710			
Lime		15	710	725			
Red Rock		15	725	740			
Slate - Shells		75	740	815			
Red - Red		20	815	835			
Lime Shells		25	835	860			
Red-Red		20	860	880			
Lime		40	880	920			
Lime		25	920	945			
Red Rock		10	945	955			
Lime - Shells		70	955	1025			
Big Dunkard Sand		15	1025	1040			
Lime		160	1040	1200			
Gas Sand		57	1200	1257			
Slate - Shells		58	1257	1315	7" (20#, J-55) Csg. Pt. -	1320'5"	Cemented With 350 bags. 10/17/57
1st Salt Sand			1315				
Total Depth				1354			



Formation	Color	Hard or Soft	Top / 3	Bottom	Oil, Gas or Water	Depth Found	Remarks
					Drilling in of pay zone		
					1330-1331	78,869 Cu. Ft.	/ day
					1331-1334	195,199 Cu. Ft.	/ day
					1334-1338	409,971 Cu. Ft.	/ day
					1338-1343	475,046 Cu. Ft.	/ day
					1343-1350	484,962 Cu. Ft.	/ day
					1350-1353	2,208,848 Cu. Ft.	/ day

Date December 2, 1957

APPROVED THE MANUFACTURERS LIGHT AND HEAT CO., Owner

By Walter A. [Signature] Land Agent